

Problem Statement 2: User Query on Stack Overflow

A lot of content is present in form of stack overflow questions and answers, various studies point that developers face problems while development life cycles and they ask questions on stack overflow which gets answered by fellow developers across the globe. For a new developer to understand a concept or solve an issue, it could be very difficult to identify the problems. The proposed solution should help to identify most relevant questions to a query using text similarity including identify the matching tags and pick top relevant questions from stack overflow and identify top (k) solutions of the problem based on sentiment analysis of reviews of the given solutions on the Stack Overflow.

As a solution to this answer we are here with our own idea...

Uniqueness:

- Simple program written by python language.
- Used excel instead of an optional program.
- Can be able to get accurate solution among a large data base.
- Easy to analyse the program.
- We are here with a new algorithm.

We have proposed our solution with a new implementation of data structure searching technique. We uses excel with python program and this proves our uniqueness in present era.

Technologies used:

- We used python programming language in order to get a simple and understandable code.
- For that purpose we used pycharm a special software tool for better development of python related programs.

Here we are providing 3 types of programs called **basic.py**, **demo.py**, **sample.py**

Basic.py: basic.py runs with the function calling methodology where all answers are stored in respective functions.

For this we are having a special program called **pack.py** which holds all the list of funcions.

Demo.py: demo.py runs with the invocation of an excel spread sheet by importing it into demo.py using *openxl* (or) *pandas* optionally.

Sample.py: as an integrated and code reduced model we are providing sample.py by just iterating the execution of excel rows invocation.

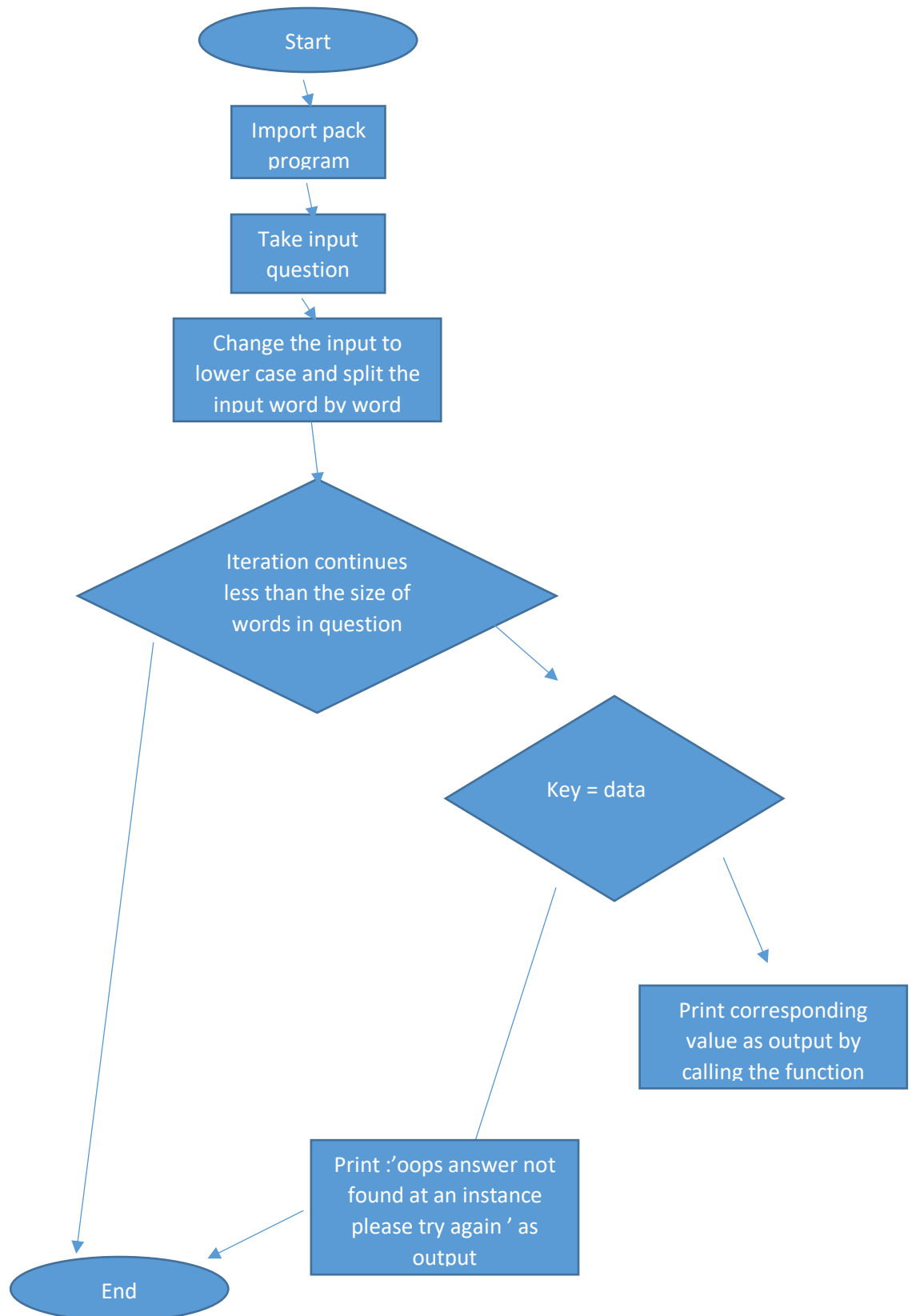
```
1  import openpyxl as xl
2  wb=xl.load_workbook('Book1.xlsx')
3  sheet=wb['Book1']
4
5  s = input("enter what you want to search: ")
6  print(f'{s} >>>')
7  s=s.lower()
8  s=s.split()
9
10 j=int(0)
11 i=int(0)
12 while i<len(s):
13     key = s[i]
14     while j<len(wb['Book1']):
15         if key == sheet['aj']:
16             cell=sheet['bj']
17             print(cell.value)
18             j=j+1
19
20     i=i+1
21
```

Scope of work to be implemented in project with modules:

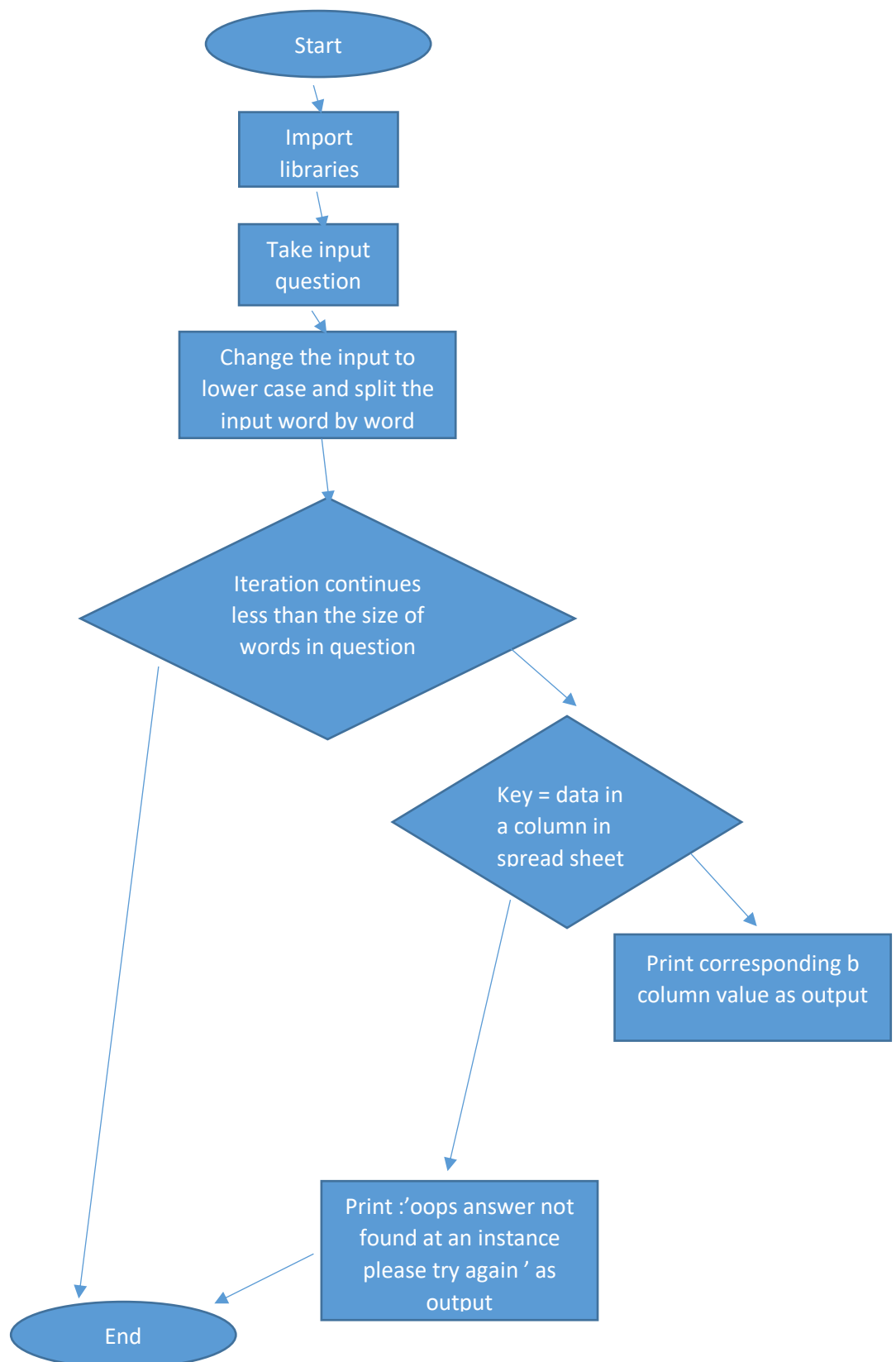
- In order to have an online data base instead of using excel, we have to use **PANDAS** one of the most relevant way to use a data base.
- The code will be more effectively understandable and implementable using **JUPYTER notebook** one of the favourable notebook over **ANACONDA IDE**.
- We can also use **Spyder** as optional.
- **DJANGO** Is often helpful in order to apply in website or web application...

Architectural flow of algorithm:

Algorithm for BASIC.PY



Algorithm for DEMO.PY



Algorithm for SAMPLE.PY

